

Table 1

		Ex. 1	Ex. 2	Ex. 3	Ex. 4	Ex. 5	Ex. 6	Comp. Ex. 1	Comp. Ex. 2	Comp. Ex. 3
Starting elastomer	Polymer substance	EPDM	EPDM	NR	NBR	SBR	SBS	Polymer plasticizer	Ethyl cellulose	EPDM
	Polar group	Double bond Norbornene	Double bond Norbornene	Double bond	Double bond Nitrile group	Double bond	Double bond	Ester group	Ethoxy group	Double bond Norbornene
	Average molecular weight	200,000	200,000	3,000,000	200,000	150,000	100,000	391	100,000	200,000
	T2n (30°C) (μsec)	520	520	700	300	400	200	550000	50	520
	T2n (150°C) (μsec)	2200	2200	5500	2000	2400	2100	impossible to measure	12000 (1 component)	2200
	T2nn (150°C) (μsec)	16000	16000	18000	14000	17000	10000			16000
	fnn(150°C)	0.405	0.405	0.381	0.133	0.286	0.653			0.405
	Flow temperature (°C)	55	55	40	75	35	100	liquid	65	55
	Polymer material (phr)	100	100	100	100	100	100	100	100	100
	CNT (phr)	10	60	10	10	10	10	10	10	0
Formulation	T2n (150°C) (μsec)	1800	1400	2000	1700	2200	1500	impossible to measure	13000 (1 component)	2200
	T2nn (150°C) (μsec)	6000	none	9000	9600	5600	4000			18000
	fnn (150°C)	0.183	0	0.089	0.045	0.171	0.135			0.385
	Flow temperature (°C)	75	150°C or higher	100	150°C or higher	100	150°C or higher	liquid	70	55
	T2n (150°C) (μsec)	575	620	1240	597	484	740	impossible to measure	Un-crosslinked form	640
	T2nn (150°C) (μsec)	3870	none	3830	3380	2590	3300			4150
	fnn (150°C)	0.07	0	0.113	0.088	0.071	0.078			0.117
	E'(30°C)(MPa)	5.86	52.1	2.61	6.9	6.6	12.5	impossible to measure	62*	2.98
	TB (MPa)	6.7	25.0	16.6	6.5	4.6	16.2			1.7
	EB (%)	170	82	170	110	50	160			180
Composite material	ΔT1(msec/CNF 1 vol%)	4.2	6.5	8.3	11.5	7.6	7.2	4	0	0